

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY. DOCKET NO.
D0323 NP
APPLICATION NO.
10/800,249
APPLICANT
RAMANATHAN ET AL.
FILING DATE
MARCH 12, 2004

Group



U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE |
|---------------------|----|-----------------|---------|-------------------|-------|----------|-------------|
| <i>[Signature]</i> | AA | 6555330BI | 4/29/03 | Fearnhead, et al. | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
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FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | OFFICE | CLASS | SUBCLASS | TRANSLATION | |
|--------------------|----|-----------------|----------|--------|-------|----------|--------------------------|--------------------------|
| | | | | | | | YES | NO |
| <i>[Signature]</i> | AM | WO0136471A2 | 5/25/01 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | AN | WO0194385A2 | 12/13/01 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | AO | WO2004032928A1 | 4/22/04 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | AP | WO0213845A2 | 2/21/02 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | AQ | WO0218938A1 | 3/7/02 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

| | | |
|--------------------|----|--|
| <i>[Signature]</i> | AR | Nomura, et al., "Molecular cloning of cDNAs encoding a LD78 receptor and putative leukocyte chemotactic peptide receptors", Intern. Immunology, Vol. 5(10), pp. 1239-1249 (1993) |
| | AS | Strausberg, et al., "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences", PNAS, Vol. 99(26), pp. 16899-16903 (2002) |
| | AT | Soga, et al., "Molecular identification of nicotine acid receptor", Biochem. Biophysical Res. Comm., Vol. 303, pp. 364-369 (2003) |

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| | 2AB | WO9856820 | 12/17/98 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2AC | EP1270724A2 | 1/2/03 | EP | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2AD | WO03003906A2 | 1/16/03 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2AE | WO0022129 | 4/20/00 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2AF | WO02061087A2 | 8/8/02 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
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| 2 | 3AA | Tunaru, et al., "PUMA-G and HM74 are receptors for nicotinic acid and mediate its anti-lipolytic effect", Nature Med., Vol. 9(3), pp. 352-355 (2003) |
| | 3AB | Wise, et al., "Molecular Identification of High and Low Affinity Receptors for Nicotinic Acid", J. of Biol. Chem., Vol. 278(11), pp. 9869-9874 (2003) |
| | 3AC | Zingoni, et al., "Isolation and Chromosomal Localization of GPR31, a Human Gene Encoding a Putative G Protein-Coupled Receptor", Genomics, Vol. 42, pp. 519-523 (1997) |
| | 3AD | NCBI Accession No. XP015921, NCBI Annotation Project, May 7, 2002 |
| | 3AE | NCBI Accession No. gi:20477506, NCBI Annotation Project, May 7, 2002 |
| | 3AF | NCBI Accession No. AAH63461, Strausberg, et al., December 11, 2003 |
| | 3AG | NCBI Accession No. gi:39645841, Strausberg, et al., December 11, 2003 |
| | 3AH | NCBI Accession No. BAC06083, Suwa, M., July 23, 2002 |
| | 3AI | NCBI Accession No. gi:21928995, Suwa, M., July 23, 2002 |
| | 3AJ | NCBI Accession No. XP_015921, NCBI Annotation Project, February 7, 2002 |
| | 3AK | NCBI Accession No. gi:13650365, NCBI Annotation Project, February 7, 2002 |
| | 3AL | NCBI Accession No. NP_006009, Soga, et al., May 24, 2004 |
| | 3AM | NCBI Accession No. gi:5174461, Soga, et al., May 24, 2004 |
| | 3AN | NCBI Accession No. XP_015921, NCBI Annotation Project, May 13, 2002 |

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| | | NCBI Accession No. gi:20553163, NCBI Annotation Project, May 13, 2002 |
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| | 4AC | NCBI Accession No. gi:31700316, Liaw, June 12, 2003 |
| | 4AD | NCBI Accession No. XP_015921, NCBI Annotation Project, May 13, 2002 |
| | 4AE | NCBI Accession No. gi:20553163, NCBI Annotation Project, May 13, 2002 |
| | 4AF | NCBI Accession No. XP_015923, NCBI Annotation Project, JULY 16, 2001 |
| | 4AG | NCBI Accession No. gi:13650370, NCBI Annotation Project, JULY 16, 2001 |
| | 4AH | NCBI Accession No. BAB89345, Takeda, et al., May 24, 2002 |
| | 4AI | NCBI Accession No. gi:20152328, Takeda, et al., May 24, 2002 |
| | 4AJ | NCBI Accession No. NP_808219, Soga, et al., May 27, 2004 |
| | 4AK | NCBI Accession No. gi:29171311, Soga, et al., May 27, 2004 |
| | 4AL | NCBI Accession No. XP_290593, October 17, 2003 |
| | 4AM | NCBI Accession No. gi:29744333, October 17, 2003 |
| ✓ | 4AN | NCBI Accession No. BAC06094, Suwa, M., July 23, 2002 |

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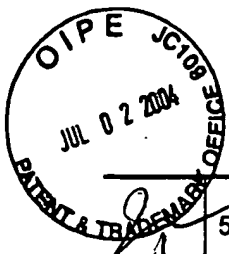
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| 5AA | NCBI Accession No. BAC06094, Suwa, et al., July 23, 2002 |
| 5AB | NCBI Accession No. XP_090326, NCBI Annotation Project, February 7, 2002 |
| 5AC | NCBI Accession No. gi:18601664, NCBI Annotation Project, February 7, 2002 |
| 5AD | NCBI Accession No. XP_090326, NCBI Annotation Project, May 13, 2002 |
| 5AE | NCBI Accession No. gi:20553191, NCBI Annotation Project, May 13, 2002 |
| 5AF | NCBI Accession No. AB065876, Suwa, et al., July 23, 2002 |
| 5AG | NCBI Accession No. gi:21929016, Suwa, et al., July 23, 2002 |
| 5AH | NCBI Accession No. BC056419, Strausberg, et al., August 20, 2003 |
| 5AI | NCBI Accession No. gi:33991646, Strausberg, et al., August 20, 2003 |
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U.S. PATENT APPLICATION PUBLICATIONS

| EXAMINER INITIAL | | U.S. APPLICATION DOCUMENT | DATE OF PUBLICATION | NAME | CLASS | SUBCLASS | FILING DATE |
|---------------------|----|------------------------------|------------------------|--------------|-------|----------|-------------|
| <i>ja</i> | AA | 2002/0187514 | 12/12/02 | Chen et al. | | | |
| | AB | 2004/0038201 | 2/26/04 | Nau et al. | | | |
| | AC | 2004/0092520 | 5/13/04 | Griffith | | | |
| | AD | 2004/0117125 | 6/17/04 | Chen et al. | | | |
| | AE | 2004/0122074 | 6/24/04 | Dow et al. | | | |
| | AF | 2004/0142377 | 7/22/04 | Unett et al. | | | |

U.S. PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE |
|-----------|----|-----------------|---------|-------------|-------|----------|-------------|
| <i>ja</i> | AG | 6,555,339 | 4/29/03 | Liaw et al. | | | |
| | AH | | | | | | |
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| <i>ja</i> | AK | JP 2004-198202 | 7/15/04 | JP | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | AL | JP 2004-500614 | 1/8/04 | JP | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | AM | WO 2004/037823 | 5/6/04 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | AN | WO 2004/016608 | 2/26/04 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | AO | WO 2004/039320 | 5/13/04 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

| | | |
|-----------|----|--|
| <i>ja</i> | AP | NCBI Entrez Accession No. BC063461 (gi:39645840), Strausberg, R.L. et al., April 1, 2004 |
| | AQ | AbdAlla, S. et al., "AT ₁ -receptor heterodimers show enhanced G-protein activation and altered receptor sequestration", Nature, Vol. 407, pp. 94-98 (2000) |
| | AR | Alam, J. et al., "Reporter Genes: Application to the Study of Mammalian Gene Transcription", Analytical Biochemistry, Vol. 188, pp. 245-254 (1990) |

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| | 2AC | WO 2004/052365 | 6/24/04 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | 2AD | WO 2004/052864 | 6/24/04 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
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| | 2AG | WO 2004/053454 | 6/24/04 | PCT | | | <input type="checkbox"/> | <input type="checkbox"/> |
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|-----|---|
| 3AA | Altschul, S.F. et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Research, Vol. 25, No. 17, pp. 3389-3402 (1997) |
| 3AB | Baldwin, J.M., "Structure and function of receptors coupled to G proteins", Current Opinion in Cell Biology, Vol. 6, pp. 180-190 (1994) |
| 3AC | Bateman, A. et al., "The Pfam Protein Families Database", Nucleic Acids Research, Vol. 28, No. 1, pp. 263-266 (2000) |
| 3AD | Baud, V. et al., "EMR1, an Unusual Member in the Family of Hormone Receptors with Seven Transmembrane Segments", Genomics, Vol. 26, pp. 334-344 (1995) |
| 3AE | Blache, P. et al., "Cloning and Tissue Distribution of a New Rat Olfactory Receptor-like (OL2)", Biochemical and Biophysical Research Communications, Vol. 242, No. 3, pp. 669-672 (1998) |
| 3AF | Bolander, F.F., Molecular Endocrinology, Second Edition, Academic Press, Inc., publ., pp. 162-176 (1994) |
| 3AG | Boss, V. et al., "Induction of NFAT-mediated Transcription of G _q -coupled Receptors in Lymphoid and Non-lymphoid Cells", The Journal of Biological Chemistry, Vol. 271, No. 18, pp. 10429-10432 (1996) |
| 3AH | Chen, G. et al., "Constitutive receptor systems for drug discovery", Journal of Pharmacological and Toxicological Methods, Vol. 42, pp. 199-206 (1999) |
| 3AI | Chiquet-Ehrismann, R. et al., "Tenascin: an Extracellular Matrix Protein Involved in Tissue Interactions during Fetal Development and Oncogenesis", Cell, Vol. 47, pp. 131-139 (1986) |
| 3AJ | Conklin, B.R. et al., "Substitution of three amino acids switches receptor specificity of G _q to that of G _α ", Nature, Vol. 363, pp. 274-276 (1993) |
| 3AK | Coughlin, S.R., "Expanding horizons for receptors coupled to G proteins: diversity and disease", Current Opinion in Cell Biology, Vol. 6, pp. 191-197 (1994) |
| 3AL | Dorn II, G.W. et al., "Low- and high-level transgenic expression of β ₂ -adrenergic receptors differentially affect cardiac hypertrophy and function in Gα _q -overexpressing mice", Proc. Natl. Acad. Sci. USA, Vol. 96, pp. 6400-6405 (1999) |
| 3AM | Feng, Y. et al., "HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor", Science, Vol. 272, pp. 872-877 (1996) |
| 3AN | Fiering, S. et al., "Single cell assay of a transcription factor reveals a threshold in transcription activated by signals emanating from the T-cell antigen receptor", Genes and Development, Vol. 4, pp. 1823-1834 (1990) |

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| | 4AA | Gaudin, P. et al., "Constitutive Activation of the Human Vasoactive Intestinal Peptide 1 Receptor, a Member of the New Class II Family of G Protein-coupled Receptors", The Journal of Biological Chemistry, Vol. 273, No. 9, pp. 4990-4996 (1998) |
| | 4AB | George, S.E. et al., "Functional Coupling of Endogenous Serotonin (5-HT _{1B}) and Calcitonin (C1a) Receptors in CHO Cells to a Cyclic AMP-Responsive Luciferase Reporter Gene", Journal of Neurochemistry, Vol. 69, No. 3, pp. 1278-1285 (1997) |
| | 4AC | Gilman, A.G., "G Proteins: Transducers of Receptor-Generated Signals", Ann. Rev. Biochem., Vol. 56, pp. 615-649 (1987) |
| | 4AD | Gray, J.X. et al., "CD97 is a Processed, Seven-Transmembrane, Heterodimeric Receptor Associated with Inflammation", The Journal of Immunology, Vol. 157, pp. 5438-5447 (1996) |
| | 4AE | Hawes, B.E. et al., "Phosphatidylinositol 3-Kinase Is an Early Intermediate in the G $\beta\gamma$ -mediated Mitogen-activated Protein Kinase Signaling Pathway", The Journal of Biological Chemistry, Vol. 271, No. 21, pp. 12133-12136 (1996) |
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| | 4AG | Horn, F. et al., "G protein-coupled receptors <i>in silico</i> ", J. Mol. Med., Vol. 76, pp. 464-468 (1998) |
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| | 4AK | Kim, J.-M. et al., "Structure and function in rhodopsin: Rhodopsin mutants with a neutral amino acid at E134 have a partially activated conformation in the dark state", Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 14273-14278 (1997) |
| | 4AL | Kypson, A.P. et al., "Adenovirus-mediated gene transfer of the β_2 -adrenergic receptor to donor hearts enhances cardiac function", Gene Therapy, Vol. 6, pp. 1298-1304 (1999) |
| | 4AM | Lu, Z.-L. et al., "The Functional Topography of Transmembrane Domain 3 of the M ₁ Muscarinic Acetylcholine Receptor, Revealed by Scanning Mutagenesis", The Journal of Biological Chemistry, Vol. 274, No. 11, pp. 7309-7315 (1999) |
| | 4AN | Maniatis, T. et al., Molecular Cloning, A Laboratory Manual, Cold Spring Harbor Laboratory, publ., pp. v-x (table of contents) (1982) |

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| 5AA | Matsuoka, I. et al., "Identification of Novel Members of G-Protein Coupled Receptor Superfamily Expressed in Bovine Taste Tissue", Biochemical and Biophysical Research Communications, Vol. 194, No. 1, pp. 504-511 (1993) |
| 5AB | Okada, T. et al., "Activation of rhodopsin: new insights from structural and biochemical studies", Trends in Biochemical Sciences, Vol. 26, No. 5, pp. 318-324 (2001) |
| 5AC | Parma, J. et al., "Somatic mutations in the thyrotropin receptor gene cause hyperfunctioning thyroid adenomas", Nature, Vol. 365, pp. 649-651 (1993) |
| 5AD | Raming, K. et al., "Identification of a Novel G-Protein Coupled Receptor Expressed in Distinct Brain Regions and a Defined Olfactory Zone", Receptors and Channels, Vol. 6, pp. 141-151 (1998) |
| 5AE | Rees, S. et al., Chapter 8: "Reporter gene systems for the study of G protein-coupled receptor signal transduction in mammalian cells", Signal Transduction: A Practical Approach, Second Edition, Oxford University Press, publ., Milligan, G., ed., pp. 171-221 (1999) |
| 5AF | Salcedo, R. et al., "Human endothelial cells express CCR2 and respond to MCP-1: direct role of MCP-1 in angiogenesis and tumor progression", Blood, Vol. 96, No. 1, pp. 34-40 (2000) |
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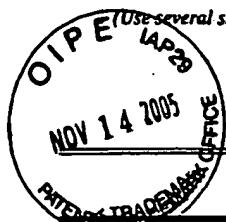
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| | AP | 2005/0004178 A1 | 1/6/05 | Unett, et al. | | | |
| | AQ | 2005/0020616 A1 | 1/27/05 | Coe, et al. | | | |
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| | AT | 2005/0059153 A1 | 3/17/05 | George, et al. | | | |
| | AU | 2005/0084872 A1 | 4/21/05 | Lum, et al. | | | |
| | AV | 2005/0095607 A1 | 5/5/05 | Erlander, et al. | | | |
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| | AX | 2005/0154029 A1 | 7/14/05 | Unett, et al. | | | |
| | AY | 2005/0159597 A1 | 7/21/05 | Ji, et al. | | | |
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| | ABB | 2005/0187280 A1 | 8/25/05 | Minnich, et al. | | | |
| | ACC | 2005/0187263 A1 | 8/25/05 | Minnich, et al. | | | |

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| <i>gn</i> | 2AB | 6,555,339 B1 | 4/29/03 | Liaw, et al. | | | |
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| <i>gn</i> | 2AE | DE102 51 244 A1 | 5/19/04 | Germany | | | | |
| | 2AF | JP2004198202A | 7/15/04 | Japan | | | | |
| | 2AG | JP2004135582A | 5/13/05 | Japan | | | | |
| | 2AH | JP200449004A | 2/19/04 | Japan | | | | |
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RAMANATHAN ET AL.
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| 7AA | Klein, et al., "Inhibition of Nicotinic Acetylcholine Receptors by Apolipoprotein E-Derived Peptides in Rat Hippocampal Slices", <i>Neurosci.</i> , Vol. 127, pp. 563-567 (2004) |
| 7AB | Kostenis, et al., "A Highly Conserved Glycine within Linker I and the Extreme C Terminus of G Protein α Subunits Interact Cooperatively in Switching G Protein-Coupled Receptor-to-Effector Specificity", <i>J. Pharm. Exper. Therapeutics</i> , Vol. 313(1), pp. 78-87 (2005) |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

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| 8AA | Verdier, et al., "Binding Sites of Amyloid β -Peptide in Cell Plasma Membrane and Implications for Alzheimer's Disease", Curr. Prot. Peptide Science, Vol. 5, pp. 19-31 (2004) |
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